AEG

AUS ERFAHRUNG GUT

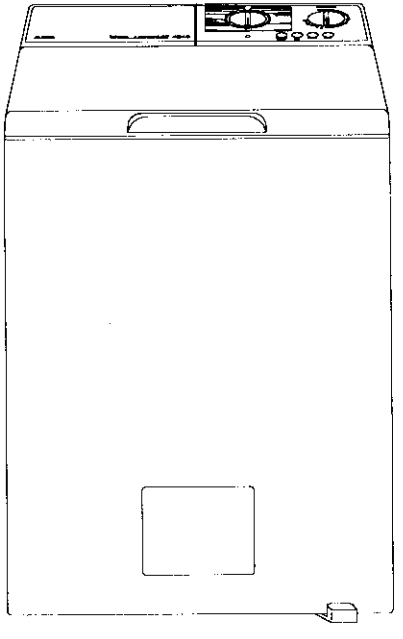
ÖKO_LAVAMAT 2442

Der umweltschonende Waschautomat

The environmental friendly automatic washing machine

Gebrauchsanweisung

Instructions for use



Contents

Safety instructions
Before using your machine for the first time 27
Safety Instructions for the user 27/28

The ÖKO-system 29

For the sake of the environment ...
Öko-Tips for economical washing 30

Description of the machine 31

Summary of instructions for use 32

Before the wash
Sort the washing 33
Pre-wash treatment 34
Particular care for certain fabrics 34
Machine loads 35
Opening the automatic washing machine 35
Loading the machine 35

Choose the wash programme 36
Programme selector / programme indicator 36
Temperature selector 37
Pushbuttons 37

Detergent
Choice of detergent 38
Quantity of detergent 38
Adding the detergent 39

List of programmes 40/41

End of programme 42

Consumption and times 43

Maintenance and care of the machine 44

What to do if ... 45/46

Customer Service 47

Technical data 48

Safety instructions

Before using your machine for the first time

- Follow the installation and connection instructions
- Do not connect a damaged machine (e.g. damaged during transport)
- Small quantities of water in the detergent/additive compartments are due to factory tests.
- To remove residue from manufacturing in the wash drum and dispenser compartment, a wash programme without clothes should be carried out - e.g. colour wash 60°C with a 1/2 measuring beaker of detergent.

Safety instructions for the user

The safety of AEG electrical appliances is in conformity with recognized technical standards and current legislation. Nevertheless, we feel obliged to point out to you and other possible users the following :

- Ensure before switching on the machine that the nominal voltage and current type indicated on the manufacturer's plate correspond with the voltage and current type where the machine is to be used. The necessary fuse protection should also be read off the rating plate.

- If your ÖKO-LAVAMAT is in a room subject to temperatures below freezing, the water must be removed from the machine should the danger of freezing be expected.

- Before cleaning, care and maintenance, ensure that the machine is switched off. You are completely safe if you remove the plug from the power-point, or, in the case of a fixed installation, when the circuit breaker is open or the cartridge-fuse is completely removed (see installation and connection instructions).

- Never spray the machine with a jet of water.

- Never pull the plug out by pulling on the cord, but rather on the plug itself.

- Do not switch the machine on if
  - the electrical cord is damaged, or
  - if the machine shows signs of damage to the control panel, the work surface or the base
- Repairs to electrical appliances may only be carried out by qualified personnel. Incorrect repairs can result in considerable danger for the user. Please only contact our factory customer service or a repair workshop approved by us. Only original AEG spare parts fulfil all requirements.
- Do not allow children to play with the machine, and keep domestic animals away from it.
- When disposing of the machine in a proper manner, destroy the door locks and cut off the power supply cord.
- If the machine is improperly used or incorrectly operated, no responsibility can be accepted for possible damage.
- Securely attach the discharge hose to avoid the risk of scalding and overflow.
- In case of breakdown, close the water tap and disconnect the machine from the power supply. The machine is disconnected when the plug is removed or the circuit-breaker(s) is (are) opened.
- Keep packing parts away from small children. The plastic sheeting is particularly dangerous.
- If you are washing pre-cleaned garments, flammable cleaning spirits must be completely evaporated.
- Do not use the machine for dry cleaning.
- If the machine is not connected to the potable water supply, but to a rainwater or similar supply, please observe the corresponding instructions.

CE This appliance complies with the following E.E.C. Directives :
- 73/23 EEC of 19.2.73 (Low Voltage Directive) and subsequent modifications;
- 89/336 EEC of 3.5.89 (Electromagnetic Compatibility Directive) and subsequent modifications.

The ÖKO-system

Your new ÖKO LAVAMAT from the AEG ÖKO System fulfils all current and future requirements of modern wash care and enables an individual and multiple choice of programmes.
The most economical use of water, power and detergent contributes to environmental relief and ensures the best economy.

Ribs

The ribs in the wash drum continuously carry the water to the top. This ensures an intense and balanced soaking of the wash.

Automatic water level control

The automatic water level control matches water consumption to the quantity of the wash and type of fabric.

Packing

All materials used are biodegradable. They can be disposed of without danger or burnt in rubbish incinerators.
Note on the materials : the plastics can be used again and are marked as follows: >PE< for polyethylene, e.g. the outer covering and the bags on the inside. >PS< for polystyrol foam, e.g. the padding, totally free from FCKW. The carton is made from used paper and should be deposited in the used paper collection.

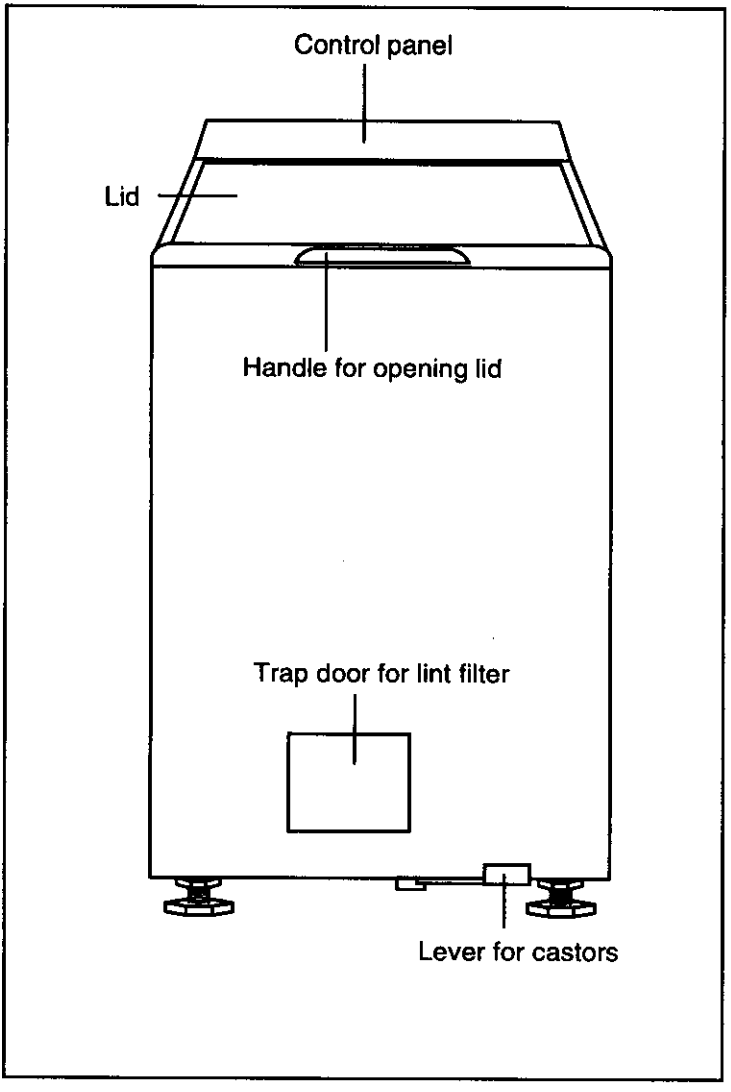
For the sake of the environment ...

ÖKO tips for economic washing

These instructions will help you to act in an environmentally conscious manner :

- For normally soiled washes, programmes without pre-wash are provided. Compared to a programme with pre-wash, you save on water and detergent.
- Only use detergent with bleach additive if the wash is soiled with spots which can be bleached. Bleaches are particularly effective at high temperatures.
- Consumption of the machine is most favourable when it is full.
- For light to normally soiled washes, the saving programme is often sufficient; it uses lower temperatures which are maintained for longer periods.
- Spots and stains can be removed by appropriate pre-treatment. This saves a programme for heavily soiled clothes.
- Use the detergent exactly as advised by the manufacturer. Too much "wates" your money and is bad for the environment. Follow the instructions for lightly soiled garments.
- Savings on detergent and for the environment may also be achieved if with medium to hard water you add sufficient detergent for soft water and then add separately a softener. This relieves our waters of a certain amount of chemicals.
- Use fabric softener only when necessary, e.g. with synthetic mixed fabrics, to avoid static charging. If you use a dryer, your wash will be soft and fluffy even without fabric softener.

Machine description



Summary of instructions for use

- **Prepare the wash**
  Sort, pre-wash treatment

- **Choose the programme and the temperature**
  Set the programme and the temperature selectors to the required programme and temperature.
  If required, press additional buttons

- **Open the lid**

- **Place the laundry in the drum**

- **Add detergent**

- **Close the lid**

- **Press the ⏻ -button**

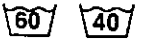
- **At the end of the programme**
  After 2 minutes of waiting time, open the lid.
  Remove the washing

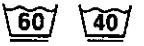
Before the wash

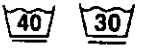
Sort the washing

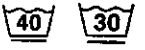
- Check that the fabrics are machine washable. This information is provided by the usual international washing symbols :

  High temperature wash

  Coloured wash 

  Synthetics 

  Delicate fabrics 

  Wool 

- Sort the wash according to type, degree of soiling and temperature.

- Woollen items with only the Wool symbol are not suitable for machine washing. To wash woollen items, the additional note "does not mat" or "machine washable" is necessary.

- The items with the following symbols are unsuitable for machine washing :

  Hand wash

  Do not wash

  Dry clean

  Do not dry clean

  Bleach possible

  Do not bleach

- Observe the recommendation "wash separately".

- New, dark coloured items often have an excess of dye. During the wash, this can be transferred to lighter coloured fabrics. It is better to wash such items separately the first time.

Pre-wash treatment

- Treat stains as soon as possible, while they are still fresh, with water, soap or appropriate pre-wash treatment (stain spray, pre-wash paste etc)

Particular care with certain fabrics

- **Empty Pockets**
  In particular, remove metallic objects (paper clips, safety pins etc.)
- Button pillow slips. Close zip fasteners, hooks and eyelets. Tie loose belts and apron strings together.
- Worked coloured fabrics, wool and fabrics with attached decorations should be turned inside-out.
- **Small and delicate objects** (e.g. baby socks, stockings) can be easily washed inside a small pillow-case with a zip fastener or in larger socks.
- **Treat curtains with particular care**
  They can be damaged simply by open windows or on being removed (so-called "runs"). Place small metal rings or edged plastic rings in a net or bag.
  We can in no case assume responsibility for damage. Only spin-dry curtains if it is approved by the manufacturer.

Loading (Maximum quantity of dry washing)

High temperature/colour wash normally soiled	**4,5 kg**
Synthetics and delicates	**2,0 kg**
Wool	**1,0 kg**

Whenever possible, wash with a full load as this ensures maximum efficiency.
Do not overfill. This has a negative result on the washing results.
With synthetics articles particularly prone to creasing, you should reduce the load.

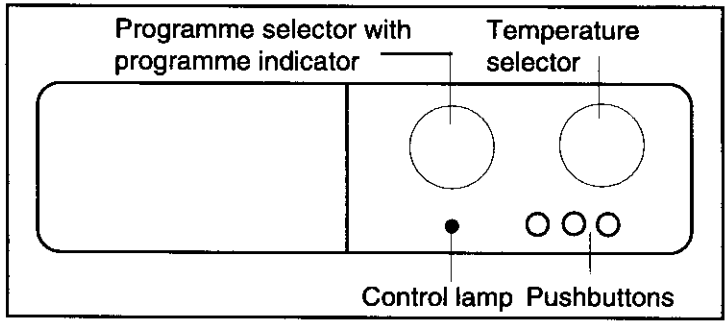
Opening the washing machine

To open the drum, press the button on the drum lid, press the drum lid down and open slowly. Load the washing and then close the drum and washing machine lids.
Caution: before closing the appliance lid check that the drum lid is properly closed.

Loading

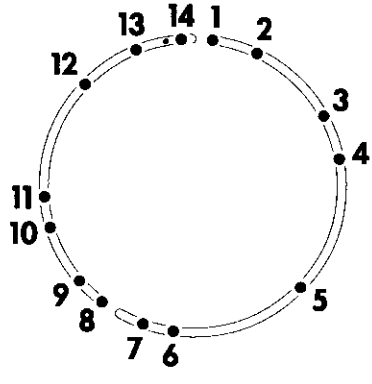
As far as possible, mix large and small articles in the wash. This improves washing efficiency and makes for more efficient distribution of the wash during spin drying.
Do not load folded washing.

Choosing the wash programme



The programme selector

Never turn the programme selector anticlockwise !



Spinning
Draining

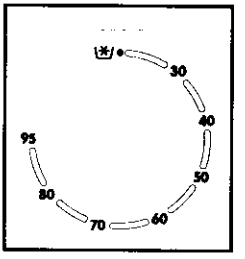
Spinning for Cotton and coloured programmes.
Draining for Synthetics, Delicates and Wool programmes.

The programme indicator

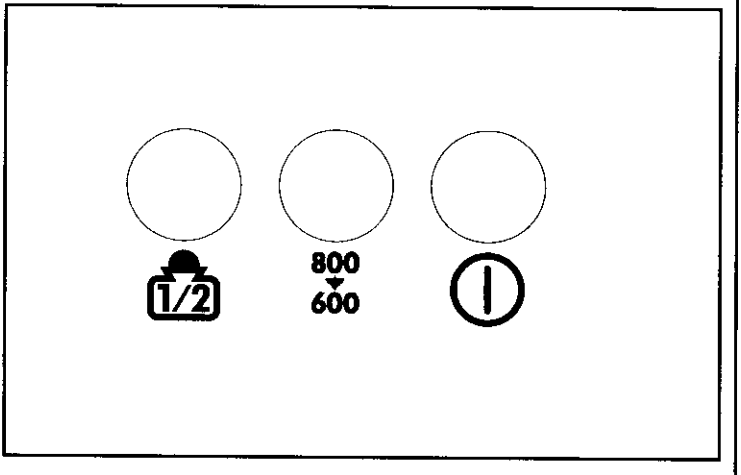
During the programme, the dial of the programme selector rotates in steps and indicates which part of the programme is running.

The temperature selector can be infinitely varied to all necessary temperatures.

The temperature selector



The pushbuttons



This pushbutton allows to wash small quantity of linen not much soiled (2,5 kg) only on the cotton programmes.

Pushbutton 1/2

This pushbutton allows to reduce the spinning speed from 800 to 600 rpm during the final spinning of the cotton programmes.

Pushbutton 800/600

Press the on/off pushbutton, the programme starts. The control lamp lights on.

Pushbutton ⏻

Detergent

Choice of detergent

You may use all modern detergents suited to domestic washing machines.
The use of the detergent depends on the type of wash and the degree of soiling.

Soiling is differentiated according to :

- **Dirt**, e.g. dust, soot, sweat, grease etc.
- **Bleachable stains**, e.g. red wine, fruit, vegetables, etc.
- **Protein stains**, e.g. blood, milk etc.

The different types of washing products are :

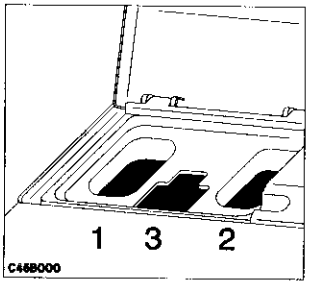
- **Washing powders** containing bleach.
- **Liquid detergents**, not containing bleach.
- **Colour and delicate detergents**, not containing bleach, often also not containing optical brighteners, gentle on fabrics.
- **Wool detergents**, free of bleach and enzymes, particularly gentle on wool fibres.
- **Curtain detergents** with light proof optical brighteners to avoid yellowing through the effect of sun light..
- **"Kit" detergents**
  These allow separate dosing of basic detergent, water softener and bleach and stain removers.
- **Water softeners** for softening of the mains water.
- **Bleach or stain removers**, for localised use on stained articles or as an additive when using bleachfree detergents.
- **Pre-treatment** for localized use on stains.
- **Fabric softeners** prevent electrostatic charge build up on synthetic fabrics and gives the wash a soft feel.
- **Starch and fabric conditioners** give body to the fabrics and facilitate ironing.
- **Dyes and dye removers** may only be used if authorized by the manufacturers of these products.

Detergent quantities

The quantity of detergent used depends on the size of the wash, the hardness of the water and the degree of soiling. Follow the instructions on the detergent packet.
Your local water supply company can supply information concerning the hardness of the water.

Water hardness		
Degree	dH	mmol/L
I - soft	below 8	below 1,4
II - medium hard	8 - 14	1,4 - 2,5
III - hard	15 - 21	2,6 - 3,7
IV - very hard	over 21	over 3,7

If the detergent manufacturer gives no quantity indications for reduced loads, use half less for a half load, and for small loads one third of the quantity for a full load.



Adding Detergent

There are three compartments in the detergent and additive dispenser.

Compartment 1	= washing powder for programmes with pre-wash .
Compartment 2	= washing powder for the main wash.
Compartment 3	= Liquid additives (fabric softener and conditioner, starch)

Please note the following :

Adding powders

- If you want to add a water softener detergent in powder to your washing (in the same compartment), please put always **in first the washing powder and then the water softener.**

Adding liquid detergent

- If you prefer **liquid detergent**, please use the measuring beakers supplied by detergent manufacturers. Add the detergent in accordance with the manufacturer's instructions.
  When using liquid softener, follow the manufacturer's instructions.

Adding liquid additives

- Fill the additive compartment only up to the "**MAX**" level, otherwise the additive will spill over prematurely and without any effect into the machine.
- When using thick softener concentrate and starch, it is recommended to top up the compartment to the "MAX" level with water.
- If you wish to use starch in powder form, dissolve it according to the maker's recommendations and pour the solution into the compartment. Choose the "fabric softener" programme.

List of programmes

Wash symbol/ Wash	Programme	Programme selection	
		Programme selector	Temperatur selector
95 60 40 Cotton/linen	High temperature with prewash	1	30 ... 95
95 60 40 Cotton/linen	High temperature	2	30 ... 95
60 40 Dressed cotton, mixed cotton fabrics, synthetics	Colour wash	3	30 ... 60
	Colour wash, short programme	4	30 ... 40
60 40 Synthetics	Synthetics with prewash	8	30 ... 60
60 40 Synthetics	Synthetics	9	30 ... 60
40 30 Synthetics/Curtains	Delicates	10	✕ ... 40
40 30 Wool/mixed woollen fabrics,silk	Wool	11	✕ ... 40
Cotton/linen	Rinses	5	
	Starch	6	
Synthetics/ Wool/Delicates	Rinse Fabric softener	12 13	
Cotton/linen	Spinning	7	
All fabrics	Draining	14	

The Synthetics/Delicates/Wool programmes end by a rinse hold. You can finish these programmes by a spinning (programme 7 with the on/off pushbutton released) or by a draining (programme 14 with the on/off pushbutton released).

Maximum load	Possible pushbuttons	
	1/2	800/600
4,5 kg	X	X
4,5 kg	X	X
4,5 kg	X	X
2,0 kg		
2,0 kg		
2,0 kg		
1 kg		
4,5 kg	X	X
		X
2,0 kg		
4,5 kg		X
4,5 kg		

End of programme

Switching off - opening the lid

At the end of the programme, the machine can be opened after two minutes of waiting time. Buttons which may have been set should be released by pushing again. Press out the "⏻"on/off button. The washing machine is switched off.
Remove the washing.
Check that the drum is completely empty, as otherwise articles could be damaged in the next wash cycle (e.g. shrinking) or could colour other articles.

Consumption and times for selected programmes

Programme	Water consumption in litres	Electricity consumption in kWh	Time in minutes
High temperature wash 95°C,	79	2,1	135
Colour wash 60°C,	79	1,2	135
Synthetics 40°C,	52	0,9	75
Wool 40°C,	52	0,4	55

The values in this table were established under normal conditions. Variations up or down are possible in practice. With programmes with pre-wash, the programme time is increased by approximately 15 minutes for high temperature programmes and approximately 5 minutes for synthetics programmes

Dispenser compartment

Clean the dispenser compartment from time to time to remove remaining detergent.

Wash drum

The wash drum is made of rust free stainless steel. Rusty objects not removed from the wash can cause rust spots to appear on the drum. These spots can be removed using stainless steel cleaner. The customer service has suitable products available.

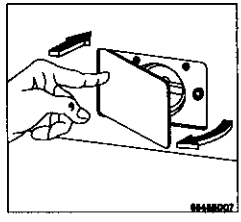
Descaling

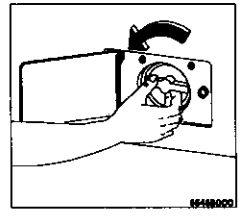
When correct quantities of detergent are used, descaling of the machine is hardly necessary. If need be, use only brand name descaling products with corrosion protection, designed for washing machines. The customer service has suitable products available.

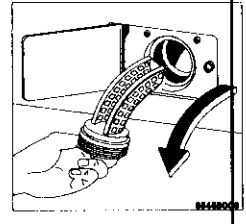
Control panel and controls

The control panel and controls should be cleaned in case of need only with lukewarm water.

Cleaning the lint filter







Regular cleaning of the lint filter is important

If you wash articles containing a lot of lint, clean the filter after every wash. Place the water discharge hose in a flat container placed on the ground, to completely empty the machine.

- Open the flap door of the filter compartment by pressing it inwards with a finger at the hinged side.
- Turn the filter knob counterclockwise and pull the filter out.
- Clean the filter thoroughly.
- Refit the filter and turn the knob clockwise.

What to do if ...

Problems you can solve yourself

... **The washing machine does not work at all ?**

- Is the machine connected to the power supply?
- Was a programme selected?
- Was a temperature selected?
- Are all the lids closed?

... **No water runs in ?**

- Is the water tap open?
- Is the filter in the water inlet blocked ?

... **The washing machine vibrates or does not stand still ?**

- With very small loads (e.g. only a bathing costume) the machine may vibrate. This has no effect on operation.
- Are the adjustable feet properly adjusted? Follow the instructions for installation.
- Is the discharge hose bent ?
- Are the transport securings completely removed ? Follow the instructions for installation.

... **The sound of the machine is unusual ?**

- The machine has a modern transmission system, which has a different sound compared to the older transmissions, and resembles a shisting sound. The new transmission system enables smooth spin starts and a regular high speed spin. Level operation is improved and water consumption reduced.

... **The detergent in the main wash foams strongly ?**

- Was too much, or the wrong detergent used ? Check the quantities added more precisely.

... **Water runs out from under the machine ?**

- Is the inlet hose connector loose ?
- Is the hose clamp on the discharge hose loose ?
- Is the discharge hose damaged ?
- Is the lint filter cover properly closed ?

... **The wash results are not as usual ?**

- Was the wrong quantity or the wrong detergent added ? Insufficient detergent leads to grey washes and scale deposits in the machine. Check the quantities more exactly.
- Were special stains pre-treated ?
- Were programme and temperature correctly chosen?

... **Despite pre-treatment, stains are not removed ?**

- They may be stains which cannot be removed by washing. Ask a specialist.

... **Grey traces are found on the finished wash ?**

- Too little detergent was used for articles stained byointment, grease or oil. The quantity of detergent is insufficient to dissolve grease ?
- Was the temperature chosen too low ?

... **Traces of fabric softener are found on the finished wash ?**

- In such cases, usually fabric softener, in particular in concentrated form, has gone directly into the wash outside of the machine. Such spots should be washed out as quickly as possible.

... **At the end of the programme, there are white detergent deposits on the wash ?**

- It is usually a case of insoluble elements of modern detergents. They are not the result of insufficient rinsing. Possible solution: brush out or shake out, or turn articles inside out for washing.

... **After the final rinse cycle, suds are still visible ?**

- Modern detergents can cause suds even in the last rinse cycle, but this has no influence on the rinse results.

... **The wash is not spun sufficiently and there is water remaining in the drum ?**

- Is the discharge hose bent ?
- Has the maximum height of the discharge hose of 1m been exceeded ?

If, despite having followed these instructions or due to a particular problem, you have to contact our customer service department you should note that customer service technicians do not make home calls free of charge during the warranty period.

Customer Service

Should you find no solution to a problem in the instructions for use, contact the customer service.

Should you contact the customer service for one of the detailed solutions or as a result of incorrect operation, the visit of the customer service cannot be made free of charge, even during the guarantee period.

Provide the customer service with the production number (E. No.) and series number (F. No.) which you will find on the plate on the inside of the lint filter trap door.

Mentioning these numbers enables the customer service to select a choice of spare parts so that the machine may be repaired on the first visit of the technician, which will avoid you having to pay for a number of trips for the technician.

In order to have these numbers readily available, we would advise you to enter them below.

E-No. .....

F-No. .....

Technical Data

Dimensions:

Height	65 cm
Width	45 cm
Depth	65 cm (including installation)

Connections:
Details of electrical connection should be obtained from the rating plate. Ensure that the nominal voltage and current type correspond to the supply voltage and current type at the place of installation.

Drum speeds :
Washing : 55 rpm
Spinning : 800/600 rpm

Water pressure :
1 - 10 bar (= 10 - 100 N/cm² = 0,1 - 1,0 MPa)

Weight empty :
approx. 70 kg